

Patent Screen

Your Fasta Input (protein sequence):

>CL001305, SEQ ID NO:2, March 3, 2004

```
1 MAFARRLLRG PLSGPLLGRG GVCAGAMAPP CRFVLELPDC TLAHFALGAD
51 APGDADAPDP RLAALLGPPE RSYSLCVPVT PDAGCGARVR AARLHQRLH
101 QLRRGPFQRC QLLRLLCYCP GGQAGGAQQG FLLRDPLDDP DTRQALLELL
151 GACQEAPRPH LGFEADPRG QLWQRLWEVQ DGRRLQVGCA QVVPVPEPPL
201 HPVVDLPSS VVFPDREAR AVLEECTSFI PEARAVLDLV DQCPKQIQKG
251 KFQVVAIEGL DATGKTTVTQ SVADSLKAVL LKSPSPSCIGQ WRKIFDDEPT
301 IIRAFYSLG NYIVASEIAK ESAKSPVIVD RYWHSTATYA IATEVSGGLQ
351 HLPFAHHPVY QWPEDLLKPD LILLTTSVPE ERLQRLQGRG MEKTREEAEL
401 EANSVFRQKV EMSYQRMENP GCHVVDASPS REKVLQTVLS LIQNSFSEP
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FastAlertP Blast Report:

BLASTP 2.2.5 [Nov-16-2002]

Reference: Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schaffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

Query= CL001305, SEQ ID NO:2, March 3, 2004
(449 letters)

Database: FastAlert_P.fasta
221,820 sequences; 37,667,424 total letters

Sequences producing significant alignments:	Score (bits)	E Value
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CRA 224000047885452 /dataset=FastAlert_P /length=251 /altid=Derw...	455	e-128
CRA 179000322886965 /dataset=FastAlert_P /length=200 /altid=Derw...	382	e-106
CRA 179000322886965 /dataset=FastAlert_P /length=200 /altid=Derw...	382	e-106

>CRA|222000011464779 /dataset=FastAlert_P /length=449
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kinases and phosphatases, useful for diagnosing,
treating or preventing atherosclerosis, hypertension,
AIDS, allergy, multiple sclerosis, osteoarthritis,
Alzheimer's disease, Crohn's disease, cancer or
hepatitis" /QU="DPT" /PA="INCYTE CORP" /PD="29-JAN-2004"
/PR="19-JUL-2002" /ED="19-FEB-2004"
Length = 449

Score = 909 bits (2350), Expect = 0.0
Identities = 448/449 (99%), Positives = 448/449 (99%)

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Sbjct: 1 MAFARRLLRGPLSGPLLGRGVCAGAMAPPRRFVLELPDCTLAHFALGADAPGDADAPDP 60

Query: 61 RLAALLGPPERSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLLRLCYCP 120
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Sbjct: 61 RLAALLGPPERSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLLRLCYCP 120

Query: 121 GGQAGGAQQGFLLRDPLDDPDTRQALLELLGACQEAPRPHLGFEADPRGQLWQRLWEVQ 180

GGQAGGAQQGFLLRDPLDDPDTRQALLELLGACQEAPRPHLGFEADPRGQLWQRLWEVQ
 Sbjct: 121 GGQAGGAQQGFLLRDPLDDPDTRQALLELLGACQEAPRPHLGFEADPRGQLWQRLWEVQ 180
 Query: 181 DGRRLQVGCAQVVPVPEPPLHPVVPDLPSSVFPDREAARAVLEECTSFIPPEARAVLDLV 240
 DGRRLQVGCAQVVPVPEPPLHPVVPDLPSSVFPDREAARAVLEECTSFIPPEARAVLDLV
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 Query: 241 DQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300
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 Query: 301 IIRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVY 360
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 Sbjct: 301 IIRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVY 360
 Query: 361 QWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVMSYQRMENP 420
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 Sbjct: 361 QWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVMSYQRMENP 420
 Query: 421 GCHVVDASPSREKVLQTVLSLIQNSFSEP 449
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 polypeptides and nucleic acid molecules useful for
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 cancer, cardiomyopathy, atherosclerosis or diabetes, in
 chromosome mapping, tissue typing or in
 pharmacogenomics" /QU="DPT" /PA="CURAGEN CORP"
 /PD="11-DEC-2003" /PR="04-JUN-2002" /ED="25-DEC-2003"
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 MAPP RFVLELPDCTLAHFALGADAPGDADAPDRLAALLGPPERSYSLCVPVTPDAGCG
 Sbjct: 1 MAPPRFVLELPDCTLAHFALGADAPGDADAPDRLAALLGPPERSYSLCVPVTPDAGCG 60
 Query: 87 ARVRAARLHQRLHQLRRGPFQRCQLLRLLCYCPGGQAGGAQQGFLLRDPLDDPDTRQAL 146
 ARVRAARLHQRLHQLRRGPFQRCQLLRLLCYCPGGQAGGAQQGFLLRDPLDDPDTRQAL
 Sbjct: 61 ARVRAARLHQRLHQLRRGPFQRCQLLRLLCYCPGGQAGGAQQGFLLRDPLDDPDTRQAL 120
 Query: 147 LELLGACQEAPRPHLGFEADPRGQLWQRLWEVQDGRRLQVGCAQVVPVPEPPLHPVVPD 206
 LELLGACQEAPRPHLGFEADPRGQLWQRLWEVQDGRRLQVGCAQVVPVPEPPLHPVVPD
 Sbjct: 121 LELLGACQEAPRPHLGFEADPRGQLWQRLWEVQDGRRLQVGCAQVVPVPEPPLHPVVPD 180
 Query: 207 LPSSVFPDREAARAVLEECTSFIPPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDAT-GK 265
 LPSSVFPDREAARAVLEECTSFIPPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDAT GK
 Sbjct: 181 LPSSVFPDREAARAVLEECTSFIPPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGGK 240
 Query: 266 TTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPTIIRAFYSLGNYIVASEIAKESAKS 325
 TTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPTIIRAFYSLGNYIVASEIAKESAKS
 Sbjct: 241 TTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPTIIRAFYSLGNYIVASEIAKESAKS 300
 Query: 326 PVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQR 385
 PVIVDR HSTATYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQR
 Sbjct: 301 PVIVDR--HSTATYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQR 358
 Query: 386 LQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNS 445
 LQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNS

Sbjct: 359 LQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNS 418

Query: 446 FSEP 449

FSEP

Sbjct: 419 FSEP 422

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cancer, cardiomyopathy, atherosclerosis or diabetes, in
chromosome mapping, tissue typing or in
pharmacogenomics" /QU="DPT" /PA="CURAGEN CORP"
/PD="11-DEC-2003" /PR="04-JUN-2002" /ED="25-DEC-2003"
Length = 251

Score = 455 bits (1171), Expect = e-128

Identities = 229/232 (98%), Positives = 229/232 (98%)

Query: 218 AARAVLEECTSFIPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLK 277

A AVLEECTSFIPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQS ADSLK

Sbjct: 20 ALGAVLEECTSFIPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSAADSLK 79

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AVLLKSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTA

Sbjct: 80 AVLLKSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTA 139

Query: 338 TYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREE 397

TYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREE

Sbjct: 140 TYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREE 199

Query: 398 AELEANSVFRQKVMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNSFSEP 449

AELEANSVFRQKVMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNSFSEP

Sbjct: 200 AELEANSVFRQKVMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNSFSEP 251

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preventing or treating NOVX-associated disorders, e.g.
cancer, cardiomyopathy, atherosclerosis or diabetes, in
chromosome mapping, tissue typing or in
pharmacogenomics" /QU="DPT" /PA="CURAGEN CORP"
/PD="11-DEC-2003" /PR="04-JUN-2002" /ED="25-DEC-2003"
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Identities = 193/195 (98%), Positives = 194/195 (99%), Gaps = 1/195 (0%)

Query: 256 AIEGLDATG-KTTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIV 314

+IEGLDATG KTTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIV

Sbjct: 3 SIEGLDATGGKTTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIV 62

Query: 315 ASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDIL 374

ASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDIL

Sbjct: 63 ASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDIL 122

Query: 375 LTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKV 434

LTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKV

Sbjct: 123 LTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKV 182

Query: 435 LQTVLSLIQNSFSEP 449

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Sbjct: 183 LQTVLSLIQNSFSEP 197

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polypeptides and nucleic acid molecules useful for
preventing or treating NOVX-associated disorders, e.g.
cancer, cardiomyopathy, atherosclerosis or diabetes, in
chromosome mapping, tissue typing or in
pharmacogenomics" /QU="DPT" /PA="CURAGEN CORP"
/PD="11-DEC-2003" /PR="04-JUN-2002" /ED="25-DEC-2003"
Length = 200

Score = 382 bits (981), Expect = e-106
Identities = 193/195 (98%), Positives = 194/195 (99%), Gaps = 1/195 (0%)

Query: 256 AIEGLDATG-KTTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIV 314
+IEGLDATG KTTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIV
Sbjct: 3 SIEGLDATGGKTTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIV 62

Query: 315 ASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDILL 374
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Sbjct: 63 ASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDILL 122

Query: 375 LTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKV 434
LTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKV
Sbjct: 123 LTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKV 182

Query: 435 LQTVLSLIQNSFSEP 449
LQTVLSLIQNSFSEP
Sbjct: 183 LQTVLSLIQNSFSEP 197

Database: FastAlert_P.fasta
Posted date: Mar 2, 2004 5:57 AM
Number of letters in database: 37,667,424
Number of sequences in database: 221,820

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0.321	0.138	0.426

Gapped

Lambda	K	H
0.267	0.0410	0.140

Matrix: BLOSUM62
Gap Penalties: Existence: 11, Extension: 1
Number of Hits to DB: 39,731,498
Number of Sequences: 221820
Number of extensions: 1943285
Number of successful extensions: 4818
Number of sequences better than 1.0e-08: 5
Number of HSP's better than 0.0 without gapping: 5
Number of HSP's successfully gapped in prelim test: 0
Number of HSP's that attempted gapping in prelim test: 4808
Number of HSP's gapped (non-prelim): 6
length of query: 449
length of database: 37,667,424
effective HSP length: 106
effective length of query: 343
effective length of database: 14,154,504

effective search space: 4854994872
effective search space used: 4854994872

T: 11

A: 40

X1: 16 (7.4 bits)

X2: 38 (14.6 bits)

X3: 64 (24.7 bits)

S1: 41 (21.8 bits)

S2: 141 (58.9 bits)

GENESEQP Blast Report:

BLASTP 2.2.5 [Nov-16-2002]

Reference: Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schaffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

Query= CL001305, SEQ ID NO:2, March 3, 2004
(449 letters)

Database: geneseqp_all.fasta
1,546,707 sequences; 273,213,384 total letters

Sequences producing significant alignments:	Score (bits)	E Value
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CRA 224000047885450 /dataset=GENESEQP /org=Homo sapiens /taxon=9...	842	0.0
CRA 98000043611837 /dataset=GENESEQP /org=Mus musculus /taxon=10...	602	e-171
CRA 224000047885452 /dataset=GENESEQP /org=Homo sapiens /taxon=9...	455	e-127
CRA 223000060714134 /dataset=GENESEQP /org=Homo sapiens /taxon=9...	441	e-123
CRA 114000021936825 /dataset=GENESEQP /org=Mus musculus /taxon=1...	259	2e-68
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Identities = 449/449 (100%), Positives = 449/449 (100%)

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Sbjct: 1 MAFARRLLRGPLSGPLLGRRGVCAGAMAPPCRFFVLELPDCTLAHFALGADAPGDADAPDP 60

Query: 61 RLAALLGPPERSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLRLLCYCP 120
RLAALLGPPERSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLRLLCYCP
Sbjct: 61 RLAALLGPPERSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLRLLCYCP 120

Query: 121 GGQAGGAQQGFLLRDPLDDPDTRQALLELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQ 180
GGQAGGAQQGFLLRDPLDDPDTRQALLELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQ
Sbjct: 121 GGQAGGAQQGFLLRDPLDDPDTRQALLELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQ 180

Query: 181 DGRRLQVGCAQVVPVPEPPLHPVVPDLPSSVVPDREAARAVLEECTSFIPPEARAVLDLV 240
DGRRLQVGCAQVVPVPEPPLHPVVPDLPSSVVPDREAARAVLEECTSFIPPEARAVLDLV
Sbjct: 181 DGRRLQVGCAQVVPVPEPPLHPVVPDLPSSVVPDREAARAVLEECTSFIPPEARAVLDLV 240

Query: 241 DQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300
 DQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPT
 Sbjct: 241 DQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300

Query: 301 IIRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVY 360
 IIRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVY
 Sbjct: 301 IIRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVY 360

Query: 361 QWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENP 420
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 Sbjct: 361 QWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENP 420

Query: 421 GCHVVDASPSREKVLQTVLSLIQNSFSEP 449
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Score = 914 bits (2362), Expect = 0.0
 Identities = 449/449 (100%), Positives = 449/449 (100%)

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 Sbjct: 1 MAFARLLRGPLSGPLLGRGVCAGAMAPPCRFVLELPDCTLAHFALGADAPGDADAPDP 60

Query: 61 RLAALLGPPERSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLRLLCYCP 120
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 Sbjct: 61 RLAALLGPPERSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLRLLCYCP 120

Query: 121 GGQAGGAQQGFLLRDPLDDPDTRQALLELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQ 180
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 Sbjct: 121 GGQAGGAQQGFLLRDPLDDPDTRQALLELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQ 180

Query: 181 DGRRLQVGCAQVVPVPEPPLHPVVPDLPSSVVPDREAARAVLEECTSFIPARAVLDLV 240
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Query: 241 DQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300
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 Sbjct: 241 DQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300

Query: 301 IIRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVY 360
 IIRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVY
 Sbjct: 301 IIRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVY 360

Query: 361 QWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENP 420
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 Sbjct: 361 QWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENP 420

Query: 421 GCHVVDASPSREKVLQTVLSLIQNSFSEP 449
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/def=Human thymidylate kinase protein
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Length = 449

Score = 909 bits (2350), Expect = 0.0
Identities = 448/449 (99%), Positives = 448/449 (99%)

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Query: 61 RLAALLGPPERSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLLRLLCYCP 120
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Sbjct: 121 GGQAGGAQQGFLLRDPLDDPDTRQALLELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQ 180

Query: 181 DGRRLQVGCAQVVPVPEPPLHPVVPDLPSSVVPDREAARAVLEECTSFIPPEARAVLDLV 240
DGRRLQVGCAQVVPVPEPPLHPVVPDLPSSVVPDREAARAVLEECTSFIPPEARAVLDLV
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Query: 241 DQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPPSCIGQWRKIFDDEPT 300
DQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPPSCIGQWRKIFDDEPT
Sbjct: 241 DQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPPSCIGQWRKIFDDEPT 300

Query: 301 IIRRAFYSYLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVY 360
IIRRAFYSYLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVY
Sbjct: 301 IIRRAFYSYLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVY 360

Query: 361 QWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENP 420
QWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENP
Sbjct: 361 QWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENP 420

Query: 421 GCHVVDASPSREKVLQTVLSLIQNSFSEP 449
GCHVVDASPSREKVLQTVLSLIQNSFSEP
Sbjct: 421 GCHVVDASPSREKVLQTVLSLIQNSFSEP 449

>CRA|224000047885450 /dataset=GENESEQP /org=Homo sapiens /taxon=9606
/mol_type=aa /date=18-DEC-03 /length=422
/altid=derwent_ac|ADC39136 /altid=derwent_id|ADC39136
/def=Novel human NOVX polypeptide SEQ ID NO: 78
/patent=W02003010327-A2 /pat_section=Claim
Length = 422

Score = 842 bits (2174), Expect = 0.0
Identities = 420/424 (99%), Positives = 420/424 (99%), Gaps = 3/424 (0%)

Query: 27 MAPPCRFLVLELPDCTLAHFALGADAPGDADAPDPRLAALLGPPERSYSLCVPVTPDAGCG 86
MAPP RFVLELPDCTLAHFALGADAPGDADAPDPRLAALLGPPERSYSLCVPVTPDAGCG
Sbjct: 1 MAPRRFVLELPDCTLAHFALGADAPGDADAPDPRLAALLGPPERSYSLCVPVTPDAGCG 60

Query: 87 ARVRAARLHQRLHQLRRGPFQRCQLLRLLCYCPGGQAGGAQQGFLLRDPLDDPDTRQAL 146
ARVRAARLHQRLHQLRRGPFQRCQLLRLLCYCPGGQAGGAQQGFLLRDPLDDPDTRQAL
Sbjct: 61 ARVRAARLHQRLHQLRRGPFQRCQLLRLLCYCPGGQAGGAQQGFLLRDPLDDPDTRQAL 120

Query: 147 LELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQDGRRLQVGCAQVVPVPEPPLHPVVPD 206
LELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQDGRRLQVGCAQVVPVPEPPLHPVVPD
Sbjct: 121 LELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQDGRRLQVGCAQVVPVPEPPLHPVVPD 180

Query: 207 LPSSVVPDREAARAVLEECTSFIPPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDAT-GK 265

LPSSVVFDPDREAARAVLEECTSFIPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDAT GK
 Sbjct: 181 LPSSVVFDPDREAARAVLEECTSFIPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGGK 240
 Query: 266 TTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIVASEIAKESAKS 325
 TTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIVASEIAKESAKS
 Sbjct: 241 TTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIVASEIAKESAKS 300
 Query: 326 PVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQR 385
 PVIVDR HSTATYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQR
 Sbjct: 301 PVIVDR--HSTATYAIATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQR 358
 Query: 386 LQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNS 445
 LQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNS
 Sbjct: 359 LQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNS 418
 Query: 446 FSEP 449
 FSEP
 Sbjct: 419 FSEP 422

>CRA|98000043611837 /dataset=GENESEQP /org=Mus musculus /taxon=10090
 /mol_type=aa /date=04-DEC-03 /length=395
 /altid=derwent_ac|AAE38614 /altid=derwent_id|AAE38614
 /def=Mouse thymidylate kinase protein
 /patent=W02003064642-A1 /pat_section=Disclosure;
 Length = 395

Score = 602 bits (1552), Expect = e-171
 Identities = 294/378 (77%), Positives = 330/378 (87%)

Query: 68 PPERSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLRLRLCYCPGGQAGGA 127
 P + LCVF+ P GCG RV+AAR+H RLL QLRRGP QRCQL +LL Y PG QAG A
 Sbjct: 16 PQGAATRLCVPLAPGEGCGPRVQAARVHRLQLQLRRGPLQRCQLSKLLGYGPGDQAGEA 75
 Query: 128 QQGFLLRDLDDPDTRQALLELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQDGRRLQV 187
 Q GFLLRDP D PDTR+ LL+LLG+CQEA RP L EF+AD +G LWQRLWE+Q R++QV
 Sbjct: 76 QHGFLLRDPDHPDTRDRLQLLLGSCQEAAEPQLAEFQADSQGLLWQRLWELQGDRQVQV 135
 Query: 188 GCAQVVPVPEPPLHPVVPDLSSVVFDPDREAARAVLEECTSFIPEARAVLDLVDQCPKQI 247
 CA V+P EP LHP++PDL +S VF DR+AARAVLEECTSFIPEARAVLDLVDQCPK++
 Sbjct: 136 DCACVLPAQEPHLHPLLPDLLNSAVFQDRDAARAVLEECTSFIPEARAVLDLVDQCPKEV 195
 Query: 248 QKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPSCIGQWRKIFDDEPTIIRRAFY 307
 QKGKFQV+AIEGLDATGKTT+TQSV++SLKAVLL+SPP CI QWRKIFDDEPTIIRRAFY
 Sbjct: 196 QKGKFQVIAIEGLDATGKTTLTQSVSESLKAVLLQSPPCISQWRKIFDDEPTIIRRAFY 255
 Query: 308 SLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPEDLL 367
 SLGNY+VASEIAKES PVIVDRYWHSTATYAIATEVSGGLQ+LPPAHPVYQWP DLL
 Sbjct: 256 SLGNYLVASEIAKESTNFPVIVDRYWHSTATYAIATEVSGGLQYLPPAHPVYQWPGDLL 315
 Query: 368 KPDLILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVDA 427
 KPDL+LLLTV+ EER++RLQGRG EKT+EEAELEAN+VFRQKVEM+YQRMENP CH+VDA
 Sbjct: 316 KPDLVLLLTVNSEERVRLQGRGQEKTKEEAELEANNVFRQKVEMTYQRMENPSCHLVDA 375
 Query: 428 SPSREKVLQTVLSLIQNS 445
 SPSRE VLQ VL LIQ+S
 Sbjct: 376 SPSRETVLQKVLELIQSS 393

>CRA|224000047885452 /dataset=GENESEQP /org=Homo sapiens /taxon=9606
 /mol_type=aa /date=18-DEC-03 /length=251
 /altid=derwent_ac|ADC39138 /altid=derwent_id|ADC39138
 /def=Novel human NOVX polypeptide SEQ ID NO: 80

/patent=WO2003010327-A2 /pat_section=Claim
Length = 251

Score = 455 bits (1171), Expect = e-127
Identities = 229/232 (98%), Positives = 229/232 (98%)

Query: 218 AARAVLEECTSFIPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLK 277
A AVLEECTSFIPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQS ADSLK

Sbjct: 20 ALGAVLEECTSFIPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSAADSLK 79

Query: 278 AVLLKSPSPSCIGQWRKIFDDEPTIIRRAFYSGLGNYIVASEIAKESAKSPVIVDRYWHSTA 337
AVLLKSPSPSCIGQWRKIFDDEPTIIRRAFYSGLGNYIVASEIAKESAKSPVIVDRYWHSTA

Sbjct: 80 AVLLKSPSPSCIGQWRKIFDDEPTIIRRAFYSGLGNYIVASEIAKESAKSPVIVDRYWHSTA 139

Query: 338 TYAIAATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREE 397
TYAIAATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREE

Sbjct: 140 TYAIAATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREE 199

Query: 398 AELEANSVFRQKVEMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNSFSEP 449
AELEANSVFRQKVEMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNSFSEP

Sbjct: 200 AELEANSVFRQKVEMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNSFSEP 251

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/mol_type=aa /date=26-FEB-04 /length=290
/altid=derwent_ac|ADF76971 /altid=derwent_id|ADF76971
/def=Novel human secreted and transmembrane protein
SeqID 646 /patent=WO2003072035-A2 /pat_section=Claim
Length = 290

Score = 441 bits (1133), Expect = e-123
Identities = 229/252 (90%), Positives = 232/252 (92%), Gaps = 4/252 (1%)

Query: 202 PVVPDLPS-SVFPDREAARAVLEECTSF---IPEARAVLDLVDQCPKQIQKGKFQVVAI 257
P+ LPS V +R R CT + IPEARAVLDLVDQCPKQIQKGKFQVVAI

Sbjct: 39 PIWATLPSWRVSKRERAI PRRGKSLCTVYLLYIPEARAVLDLVDQCPKQIQKGKFQVVAI 98

Query: 258 EGLDATGKTTVTQSVADSLKAVLLKSPSPSCIGQWRKIFDDEPTIIRRAFYSGLGNYIVASE 317
EGLDATGKTTVTQSVADSLKAVLLKSPSPSCIGQWRKIFDDEPTIIRRAFYSGLGNYIVASE

Sbjct: 99 EGLDATGKTTVTQSVADSLKAVLLKSPSPSCIGQWRKIFDDEPTIIRRAFYSGLGNYIVASE 158

Query: 318 IAKESAKSPVIVDRYWHSTATYAIAATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTV 377
IAKESAKSPVIVDRYWHSTATYAIAATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTV

Sbjct: 159 IAKESAKSPVIVDRYWHSTATYAIAATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTV 218

Query: 378 SPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENPGCHVVDASPSREKVLQT 437
SPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENPGCHVVDASPSREKVLQT

Sbjct: 219 SPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENPGCHVVDASPSREKVLQT 278

Query: 438 VLSLIQNSFSEP 449
VLSLIQNSFSEP

Sbjct: 279 VLSLIQNSFSEP 290

>CRA|114000021936825 /dataset=GENESEQP /org=Mus musculus
/taxon=10090 /mol_type=aa /date=07-MAR-02 /length=431
/altid=derwent_ac|ABB57297 /altid=derwent_id|ABB57297
/def=Mouse ischaemic condition related protein sequence
SEQ ID NO:834 /patent=WO200188188-A2 /pat_section=Claim
Length = 431

Score = 259 bits (663), Expect = 2e-68
Identities = 133/192 (69%), Positives = 152/192 (79%), Gaps = 9/192 (4%)

Query: 225 ECTSFIEPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSP 284
 +CTSFIEPEARAVLDLVDQCPK++QKGKFQV+AIIEGLDATGKTT+TQ +
 Sbjct: 157 QCTSFIEPEARAVLDLVDQCPKEVQKGKFQVIAIEGLDATGKTTLTQHFKSLSRSSYSRH 216

Query: 285 PSCIGQWRKIFDDEPTIIR-----RAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATY 339
 P CI K +++ ++ F NY+VASEIAKES PVIVDRYWHSTATY
 Sbjct: 217 PPCI----KPVEEDLLMMNLLSFEEPFILWANYLVASEIAKESTNFPVIVDRYWHSTATY 272

Query: 340 AIATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAE 399
 AIATEVSGGLQ+LPPAHPVYQWP DLLKPDIL+LLLTV+ EER++RLQGRG EKT+EEAE
 Sbjct: 273 AIATEVSGGLQYLPPAHPVYQWPGDLLKPDILVLLTVNSEERVRLQGRGQEKTKKEAE 332

Query: 400 LEANSVFRQKVE 411
 LEAN+VFRQKVE
 Sbjct: 333 LEANNVFRQKVE 344

>CRA|224000046444908 /dataset=GENESEQP /org=Mus musculus
 /taxon=10090 /mol_type=aa /date=18-DEC-03 /length=508
 /altid=derwent_ac|ADC63372 /altid=derwent_id|ADC63372
 /def=Mouse thymidylate kinase /patent=US2003087294-A1
 /pat_section=Disclosure;
 Length = 508

Score = 199 bits (506), Expect = 3e-50
 Identities = 96/120 (80%), Positives = 104/120 (86%)

Query: 220 RAVLEECTSFIEPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAV 279
 + ++CTSFIEPEARAVLDLVDQCPK++QKGKFQV+AIIEGLDATGKTT+TQ +
 Sbjct: 97 KTTTQCTSFIEPEARAVLDLVDQCPKEVQKGKFQVIAIEGLDATGKTTLTQHFKSLSRLS 156

Query: 280 LLKSPSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATY 339
 PSCIGQWRKIFDDEPTIIRRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATY
 Sbjct: 157 SYSRHPSCIGQWRKIFDDEPTIIRRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATY 216

Score = 178 bits (452), Expect = 5e-44
 Identities = 88/100 (88%), Positives = 89/100 (89%)

Query: 306 FYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPED 365
 F NY+VASEIAKES PVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPED
 Sbjct: 269 FILWANYLVASEIAKESTNFPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPED 328

Query: 366 LLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSV 405
 LLKPDILLLTVSPEERLQRLQGRGMEKTREEAE A V
 Sbjct: 329 LLKPDILLLTVSPEERLQRLQGRGMEKTREEAEAIATEV 368

Score = 132 bits (333), Expect = 3e-30
 Identities = 63/73 (86%), Positives = 70/73 (95%)

Query: 340 AIATEVSGGLQHLPPAHPVYQWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAE 399
 AIATEVSGGLQ+LPPAHPVYQWP DLLKPDIL+LLLTV+ EER++RLQGRG EKT+EEAE
 Sbjct: 414 AIATEVSGGLQYLPPAHPVYQWPGDLLKPDILVLLTVNSEERVRLQGRGQEKTKKEAE 473

Query: 400 LEANSVFRQKVEM 412
 LEANSVFRQKVE+
 Sbjct: 474 LEANSVFRQKVEL 486

Score = 120 bits (300), Expect = 2e-26
Identities = 64/73 (87%), Positives = 66/73 (90%), Gaps = 1/73 (1%)

Query: 225 ECTSFIEPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSP 284
ECTSFIEPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSP
Sbjct: 1 ECTSFIEPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSP 60

Query: 285 -PSCIGQWRKIFD 296
S I + R + D
Sbjct: 61 CTSFIEPEARAVLD 73

Database: geneseqp_all.fasta
Posted date: Feb 27, 2004 4:29 PM
Number of letters in database: 273,213,384
Number of sequences in database: 1,546,707

Lambda	K	H
0.321	0.138	0.426

Gapped

Lambda	K	H
0.267	0.0410	0.140

Matrix: BLOSUM62
Gap Penalties: Existence: 11, Extension: 1
Number of Hits to DB: 273,243,944
Number of Sequences: 1546707
Number of extensions: 12474211
Number of successful extensions: 32890
Number of sequences better than 1.0e-08: 9
Number of HSP's better than 0.0 without gapping: 9
Number of HSP's successfully gapped in prelim test: 0
Number of HSP's that attempted gapping in prelim test: 32867
Number of HSP's gapped (non-prelim): 17
length of query: 449
length of database: 273,213,384
effective HSP length: 119
effective length of query: 330
effective length of database: 89,155,251
effective search space: 29421232830
effective search space used: 29421232830
T: 11
A: 40
X1: 16 (7.4 bits)
X2: 38 (14.6 bits)
X3: 64 (24.7 bits)
S1: 41 (21.8 bits)
S2: 148 (61.6 bits)

NCBI pataa Blast Report:

BLASTP 2.2.5 [Nov-16-2002]
Reference: Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schaffer,
Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997),
"Gapped BLAST and PSI-BLAST: a new generation of protein database search
programs", Nucleic Acids Res. 25:3389-3402.

Query= CL001305, SEQ ID NO:2, March 3, 2004
(449 letters)

Database: pataa.fasta
143,807 sequences; 24,539,066 total letters

Sequences producing significant alignments:	Score (bits)	E Value
CRA 224000047562998 /altid=gi 27309063 /def=gb AAO00504.1 Seque...	914	0.0
CRA 224000047566517 /altid=gi 27309064 /def=gb AAO00505.1 Seque...	199	3e-51

>CRA|224000047562998 /altid=gi|27309063 /def=gb|AAO00504.1| Sequence
2 from patent US 6489153 /org= /taxon= /div=
/dataset=pataa /length=449
Length = 449

Score = 914 bits (2362), Expect = 0.0
Identities = 449/449 (100%), Positives = 449/449 (100%)

Query: 1 MAFARRLLRGPLSGPLLGRRGVCAGAMAPPCRFLVLELPDCTLAHFALGADAPGDADAPDP 60
MAFARRLLRGPLSGPLLGRRGVCAGAMAPPCRFLVLELPDCTLAHFALGADAPGDADAPDP
Sbjct: 1 MAFARRLLRGPLSGPLLGRRGVCAGAMAPPCRFLVLELPDCTLAHFALGADAPGDADAPDP 60

Query: 61 RLAALLGPPERSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLRLRLCYCP 120
RLAALLGPPERSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLRLRLCYCP
Sbjct: 61 RLAALLGPPERSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLRLRLCYCP 120

Query: 121 GGQAGGAQQGFLLRDPLDDPDTRQALLELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQ 180
GGQAGGAQQGFLLRDPLDDPDTRQALLELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQ
Sbjct: 121 GGQAGGAQQGFLLRDPLDDPDTRQALLELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQ 180

Query: 181 DGRRLQVGCAQVVPVPEPPLHPVVPDLPSVVFPDREAARAVLEECTSFIPPEARAVLDLV 240
DGRRLQVGCAQVVPVPEPPLHPVVPDLPSVVFPDREAARAVLEECTSFIPPEARAVLDLV
Sbjct: 181 DGRRLQVGCAQVVPVPEPPLHPVVPDLPSVVFPDREAARAVLEECTSFIPPEARAVLDLV 240

Query: 241 DQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPPSCIGQWRKIFDDEPT 300
DQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPPSCIGQWRKIFDDEPT
Sbjct: 241 DQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPPSCIGQWRKIFDDEPT 300

Query: 301 IIRRAFYSYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPAPHPVY 360
IIRRAFYSYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPAPHPVY
Sbjct: 301 IIRRAFYSYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPAPHPVY 360

Query: 361 QWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENP 420
QWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENP
Sbjct: 361 QWPEDLLKPDILLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENP 420

Query: 421 GCHVVDASPSREKVLQTVLSLIQNSFSEP 449
GCHVVDASPSREKVLQTVLSLIQNSFSEP
Sbjct: 421 GCHVVDASPSREKVLQTVLSLIQNSFSEP 449

>CRA|224000047566517 /altid=gi|27309064 /def=gb|AAO00505.1| Sequence
4 from patent US 6489153 /org= /taxon= /div=
/dataset=pataa /length=508
Length = 508

Score = 199 bits (506), Expect = 3e-51
Identities = 96/120 (80%), Positives = 104/120 (86%)

Query: 220 RAVLEECTSFIPPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAV 279
+ ++CTSFIPPEARAVLDLVDQCPK++QKGKFQV+AIIEGLDATGKTT+TQ +
Sbjct: 97 KTTTQCTSFIPPEARAVLDLVDQCPKEVQKGKFQVIAIEGLDATGKTTLTQHFKSLSRLS 156

Query: 280 LLKSPPSCIGQWRKIFDDEPTIIRRAFYSYSLGNYIVASEIAKESAKSPVIVDRYWHSTATY 339

PSCIGQWRKIFDDEPTIIRRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATY
Sbjct: 157 SYSRHPSCIGQWRKIFDDEPTIIRRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATY 216

Score = 178 bits (452), Expect = 5e-45
Identities = 88/100 (88%), Positives = 89/100 (89%)

Query: 306 FYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPED 365
F NY+VASEIAKES PVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPED
Sbjct: 269 FILWANYLVASEIAKESTNFPVIVDRYWHSTATYAIATEVSGGLQHLPPAHPVYQWPED 328

Query: 366 LLKPDLILLTLVSPEERLQRLQGRGMEKTREEAELEANSV 405
LLKPDLILLTLVSPEERLQRLQGRGMEKTREEAE A V
Sbjct: 329 LLKPDLILLTLVSPEERLQRLQGRGMEKTREEAEAIATEV 368

Score = 132 bits (333), Expect = 3e-31
Identities = 63/73 (86%), Positives = 70/73 (95%)

Query: 340 AIATEVSGGLQHLPPAHPVYQWPEDLLKPDLILLTLVSPEERLQRLQGRGMEKTREEAE 399
AIATEVSGGLQ+LPPAHPVYQWP DLLKPDL+LLLT+ EER++RLQGRG EKT+EEAE
Sbjct: 414 AIATEVSGGLQYLPPAHPVYQWPGDLLKPDLVLLLTVNSEERVRLQGRGQEKTKEEAE 473

Query: 400 LEANSVFRQKVEM 412
LEANSVFRQKVE+
Sbjct: 474 LEANSVFRQKVEL 486

Score = 120 bits (300), Expect = 2e-27
Identities = 64/73 (87%), Positives = 66/73 (90%), Gaps = 1/73 (1%)

Query: 225 ECTSFIEPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSP 284
ECTSFIEPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSP
Sbjct: 1 ECTSFIEPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSP 60

Query: 285 -PSCIGQWRKIFD 296
S I + R + D
Sbjct: 61 CTSFIEPEARAVLD 73

Database: pataa.fasta
Posted date: Nov 30, 2003 1:29 AM
Number of letters in database: 24,539,066
Number of sequences in database: 143,807

Lambda	K	H
0.321	0.138	0.426

Gapped

Lambda	K	H
0.267	0.0410	0.140

Matrix: BLOSUM62
Gap Penalties: Existence: 11, Extension: 1
Number of Hits to DB: 23,728,226
Number of Sequences: 143807
Number of extensions: 1055474
Number of successful extensions: 2885
Number of sequences better than 1.0e-08: 2

Number of HSP's better than 0.0 without gapping: 2
Number of HSP's successfully gapped in prelim test: 0
Number of HSP's that attempted gapping in prelim test: 2873
Number of HSP's gapped (non-prelim): 9
length of query: 449
length of database: 24,539,066
effective HSP length: 103
effective length of query: 346
effective length of database: 9,726,945
effective search space: 3365522970
effective search space used: 3365522970
T: 11
A: 40
X1: 16 (7.4 bits)
X2: 38 (14.6 bits)
X3: 64 (24.7 bits)
S1: 41 (21.8 bits)
S2: 140 (58.5 bits)